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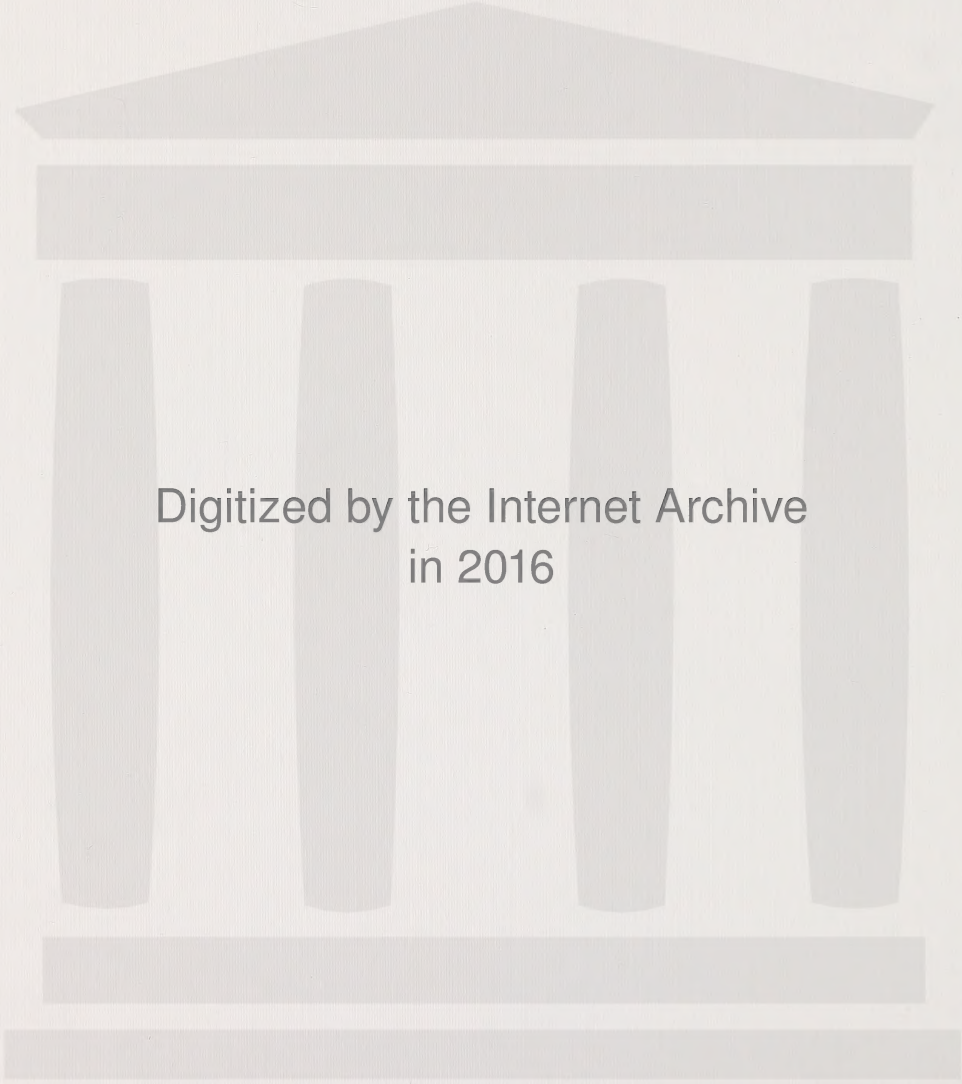
A Checklist of the Vascular Flora in the Vicinity of the Oldman River Dam

Alberta
ENVIRONMENTAL CENTRE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A Checklist of the Vascular Flora in the Vicinity of the Oldman River Dam

Alberta Environmental Centre
and
Wild Rose Consulting, Inc.

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1992

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The Oldman River Dam is located in southwestern Alberta 10 km northeast of Pincher Creek, east of the confluence of the Oldman, Castle, and Crowsnest Rivers (Figure 1). A land base, which will be managed for the conservation of wildlife, has been established around the 2400 ha reservoir by the Government of Alberta. The topography of the land base is consistent with its location at the south end of the Porcupine Hills, in the foothills of the Rocky Mountains and extending out onto the flat prairie. The terrain is cut deeply by the Oldman, Castle, and Crowsnest Rivers and the numerous large coulee systems draining into these rivers. The land base extends approximately 19 km west of the dam, almost to the town of Lundbreck, and 1.6 km east. It includes Tennessee Creek north to Sec36-Twp7-Rge30-W4 and extends north along the Oldman River to Sec9,10-Twp8-Rge1-W5. It follows the Castle River south to Sec2-Twp7-Rge1-W5.

This checklist of vascular plants was prepared to identify rare species that occur in the reservoir area or in the surrounding land base. It is anticipated that this list will provide a resource for future projects in restoration and revegetation in this area and reflect the native vegetation as it exists at present. It will be especially valuable in determining changes in flora over extended periods of time.

The checklist is based primarily on specimens collected in 1989, 1990, and 1991 in the Government of Alberta land base and adjacent private lands. Voucher specimens of each species were collected with information on location, habitat, and collection date. Specimens were identified by the authors. Confirmation (and when necessary correction) of the identification of sedges was kindly undertaken by Dr. Peter Ball at the University of Toronto, and questionable identifications of grasses and forbs were confirmed by the staff of the Biosystematics Research Centre in Ottawa. Plants previously reported for this area by Hardy and Associates (1978) Ltd. (1986) and more recently by Eastern Slopes Rangeland Consultants, Ltd. (1992) are included on this list; however, since voucher specimens were not collected, identifications of these species could not be verified. A complete collection of voucher specimens will be housed in the Herbarium of the Provincial Museum of Alberta (PMAE), at the Native Plant Genetic Resources Laboratory, Alberta Environmental Centre, Vegreville, and at the Interpretive Centre, Oldman River Dam. Presently the collection comprises approximately 1800 specimens representing 54 families, 167 genera, and 303 species.

The large number of species found in this area can be explained by the presence of numerous plant communities representing several ecoregions. The Oldman River Dam collection area is located within the Fescue Grass Ecoregion of Alberta (Strong and Leggat 1981). Floristic elements of this ecoregion are found on the moist eastern and northern aspects. Here rough fescue predominates. While the drier coulee slopes are dominated by shrub communities of wolf willow and buckbrush; chokecherry, rose, Saskatoon berry,

and hawthorn occupy the moister niches. The uplands are dominated by Mixed Grass communities (speargrass, junegrass, and wheatgrasses). These areas are of considerable interest since much of this vegetation type in Alberta has been lost to cultivation. The dry, steep, southern exposures are dominated by ground juniper and skunk bush. Elements of the Montane Ecoregion, distinguished by open stands of Douglas fir are found on the steepest north facing slopes. Limber pine, also a montane species, is found on rocky scarps. A few aspen stands, especially on the eastern and northern slopes, represent the Aspen Parkland Ecoregion. The lowest reaches along the rivers' edges support a community dominated by tall stands of cottonwoods. The soil type of the Fescue Grass Ecoregion is black chernozem. The climate is characterized by warm dry summers and dry winters. The mean temperature from May to September is 12.5°C with a frost free period of 90 days. Mean temperature from December to February is -8.0°C. Mean precipitation is 290 mm from May to September with June being the month of maximum precipitation. Snowfall from October to April is 230 mm, and there are approximately 30 chinook days.

Plant families are ordered according to the Englerian System; genera and species are arranged alphabetically within the family. Scientific names found in "Flora of Alberta" (Moss 1981) were used where possible. The recent monograph, 'Fescue Grasses of Canada' (Aiken and Darbyshire 1990) was used for the fescue. Orchid nomenclature follows Smreciu and Currah (1989). Common names are those the authors considered the most commonly used or appropriate name for each species. Designations of plants as rare for the Oldman River area are based on the COSEWIC list (1989). Further information concerning these species and their status can be found in publications by Wallis *et al.* (1986, 1987)

It is hoped that publication of this list of plants from the vicinity of the Oldman River Dam will stimulate further interest in the study and documentation of plants in areas affected by major construction projects. The authors gratefully acknowledge funding for this project from Alberta Public Works, Supply and Services, Reservoir Development Division and to Al Nilson and Ron Middleton of that department for their guidance and enthusiasm in seeing this work completed. We thank June Carrington, Craig Osterloh, Dave Hay, Richard Fyfe and Karen Brewka for their assistance in locating plant populations. Wendy Sturek, Teresa Kupchenko, and Carla Zelmer assisted with the considerable task of collecting, pressing, mounting, labelling, and cataloguing the extensive collection.

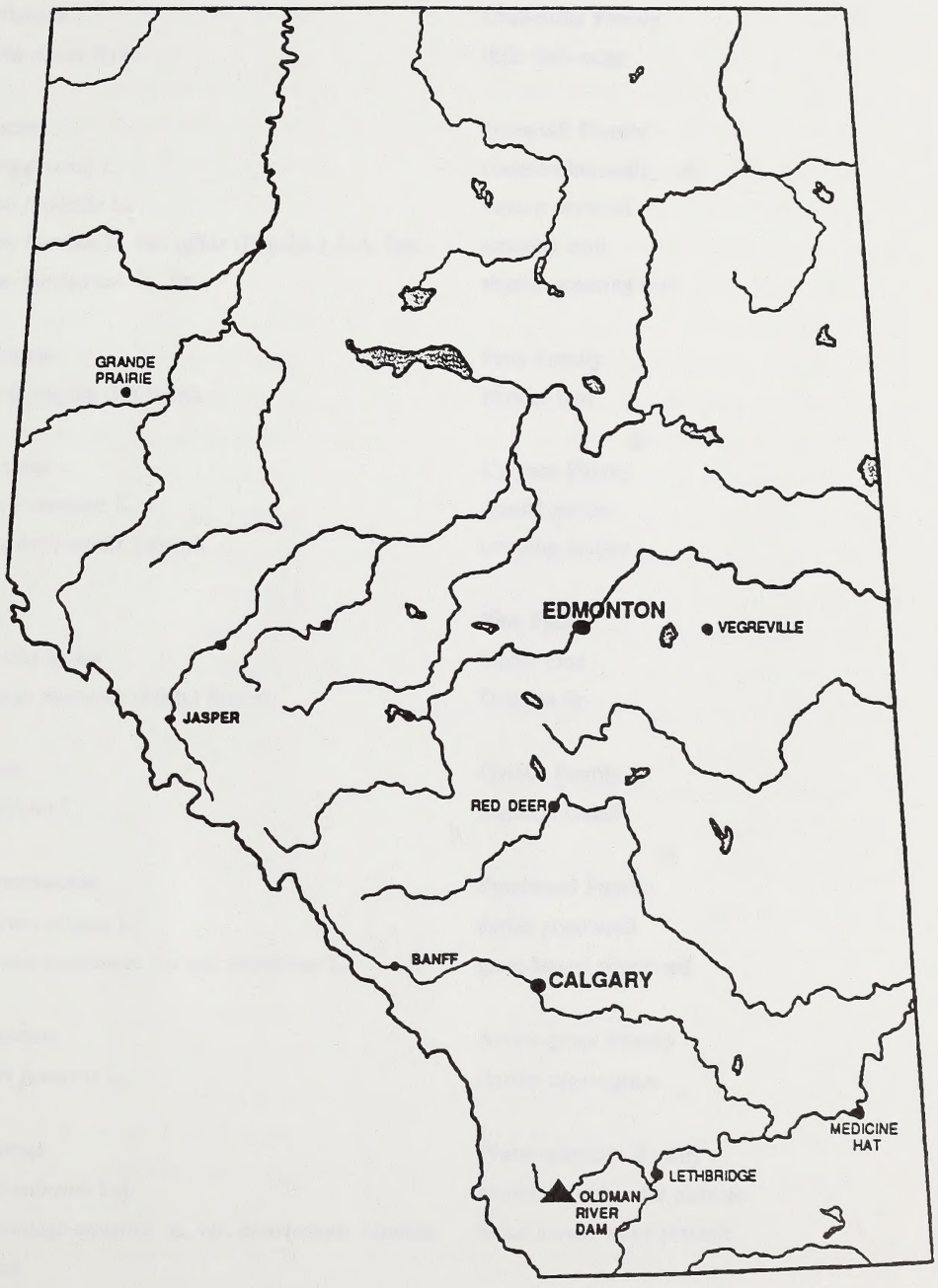
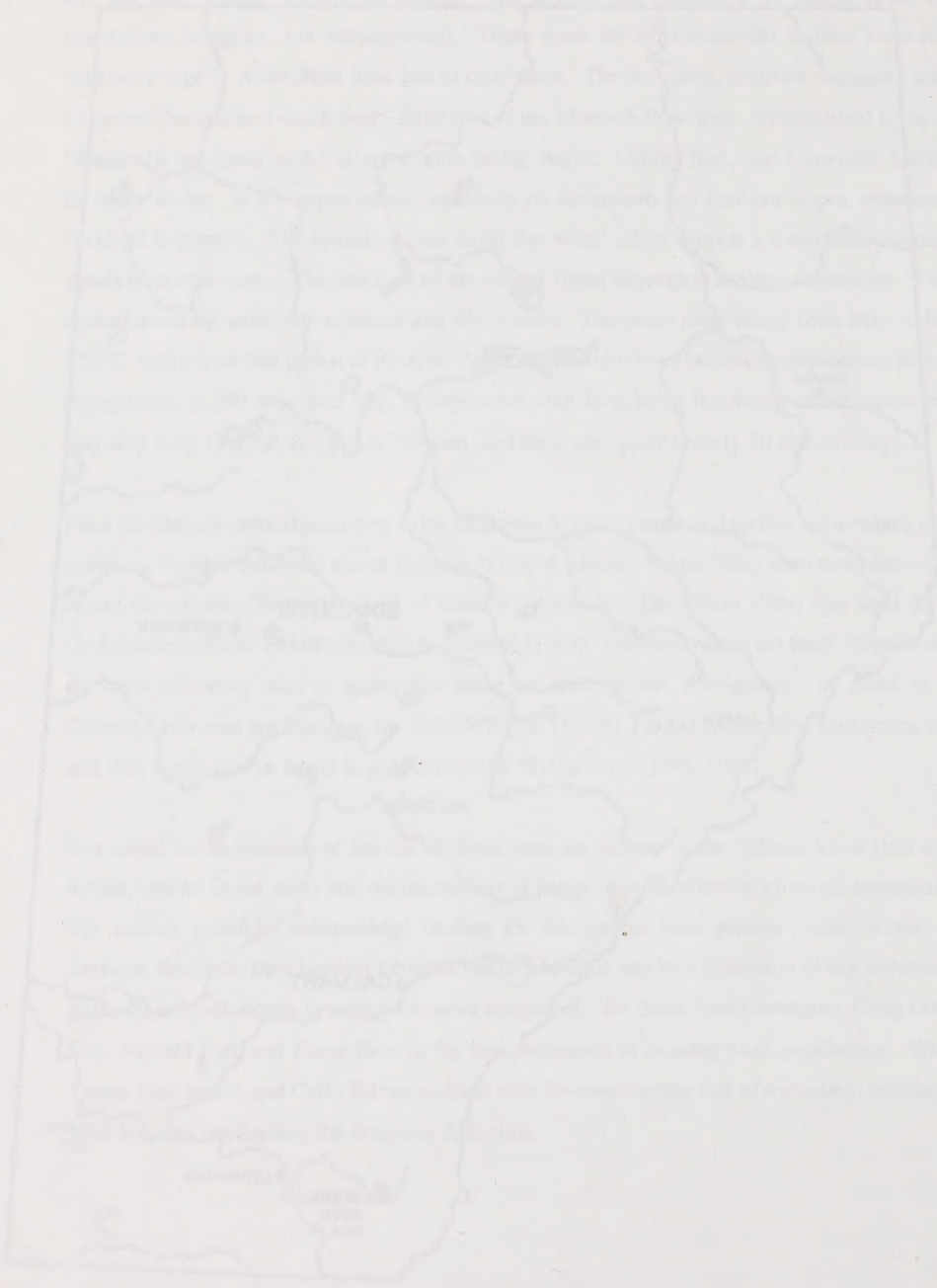


Figure 1. Location of the Oldman River Dam Site in southwestern Alberta.



Selaginellaceae	**Club-moss Family**
Selaginella densa Rydb.	little club-moss
Equisetaceae	**Horsetail Family**
Equisetum arvense L.	common horsetail
Equisetum fluviatile L.	swamp horsetail
Equisetum hyemale L. var. *affine* (Engelm.) A.A. Eat.	scouring rush
Equisetum laevigatum A. Br.	smooth scouring rush
Polypodiaceae	**Fern Family**
Cystopteris fragilis (L.) Bernh.	bladder fern
Cupressaceae	**Cypress Family**
Juniperus communis L.	ground juniper
Juniperus horizontalis Moench	creeping juniper
Pinaceae	**Pine Family**
Pinus flexilis James	limber pine
Pseudotsuga menziesii (Mirb.) Franco	Douglas fir
Typhaceae	**Cattail Family**
Typha latifolia L.	common cattail
Potamogetonaceae	**Pondweed Family**
Potamogeton crispus L.*	curled pondweed
Potamogeton gramineus L. var. *gramineus* L.	grass-leaved pondweed
Juncaginaceae	**Arrow-grass Family**
Triglochin palustris L.	slender arrow-grass
Alismataceae	**Water-plantain Family**
Alisma gramineum Lej.	narrow-leaved water plantain
Alisma plantago-aquatica L. var. *americanum* Schultes & Schultes	broad-leaved water plantain

* Introduced
** Reported by Hardy Associates (1978) Ltd. (1986)
† Rare in Alberta (COSEWIC 1989)
‡ Reported by Eastern Slopes Rangeland Consultants (1992)

Gramineae	**Grass Family**
Agropyron albicans Scribn. & Smith var. *albicans*	
Agropyron dasystachyum (Hook.) Scribn.	northern wheat grass
Agropyron smithii Rydb.	western wheat grass
Agropyron spicatum (Pursh) Scribn. & Smith	bluebunch wheat grass
Agropyron trachycaulum (Link) Malte	slender wheat grass
Agropyron trachycaulum (Link) Malte var. *unilaterale* (Cassidy) Malte	awned slender wheat grass
Agrostis stolonifera L.*	redtop
Alopecurus aequalis Sobol.ɪ	water foxtail
Beckmannia syzigachne (Steud.) Fern.	slough grass
Bouteloua gracilis (HBK) Lag.	buffalo grass
Bromus carinatus Hook. & Arn.	California brome
Bromus inermus Leyss.*	awnless brome
Calamagrostis montanensis Scribn.	plains reed grass
Calamagrostis rubescens Buckl.ɪ	pine grass
Calamovilfa longifolia (Hook.) Scribn.	sand grass
Danthonia parryi Scribn.	Parry oat grass
Deschampsia cespitosa (L.) Beauv. ssp. *cespitosa*	tufted hair grass
Elymus canadensis L.	Canada wild rye
Elymus piperi Bowden	giant wild rye
Festuca campestris Rydb.	rough fescue
Festuca idahoensis Elmer	bluebunch fescue
Festuca saximontana Rydb.	rocky mountain fescue
Glyceria striata (Lam) A.S. Hitchc. ssp. *stricta* (Scribn.) Hult.	fowl manna grass
Helictotrichon hookeri (Scribn.) Henr.	Hooker's oat grass
Hordeum jubatum L.	foxtail barley
Koeleria macrantha (Ledeb.) J.A. Schultz f.	june grass
Muhlenbergia cuspidata (Torr.) Rydb.	plains muhly
Muhlenbergia richardsonis (Trin.) Rydb.ɪ	mat muhly
Oryzopsis hymenoides (R. & S.) Ricker	Indian rice grass
Oryzopsis micrantha (Trin. & Rupr.) Thurber‡	small-flowered rice grass

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Gramineae (continued)	
Phalaris arundinacea L.	reed canary grass
Poa canbyi (Scribn.) Piper	Canby blue grass
Poa compressa L.*	Canada blue grass
Poa cusickii Vasey	early blue grass, Cusick blue grass
Poa interior Rydb.	
Poa juncifolia Scribn.	alkali blue grass
Poa palustris L.	fowl blue grass
Poa pratensis L.	Kentucky bluegrass
Poa sandbergii Vasey	Sandberg blue grass
Puccinellia nuttalliana (Schult.) A.S. Hitchc.	Nuttall's alkali grass
Schizachne purpurascens (Torr.) Swallen ssp. *purpurascens*ǂ	false melic
Stipa comata Trin. & Rupr. var. *comata*	needle and thread grass
Stipa curtiseta (A.S. Hitchc.) Barkworth	western porcupine grass
Stipa viridula Trin.	green needle grass
Cyperaceae	**Sedge Family**
Carex athrostachya Olneyǂ	slender-beaked sedge
Carex aquatilis Wahlenb.	water sedge
Carex filifolia Nutt.	thread-leaved sedge
Carex heliophila Mack.	
Carex lanuginosa Michx.	woolly sedge
Carex macloviana D'Urv.	Falkland Island sedge
Carex obtusata Lilj.	blunt sedge
Carex praegracilis Boott	clustered field sedge
Carex rossii Boott	short-stemmed sedge
Carex rostrata Stokes (= *Carex utriculata* Boott)	beaked sedge
Carex siccata Dewey	hay-like sedge
Carex sprengelii Deweyǂ	Sprengel's sedge
Carex stenophylla Wahl. ssp. *eleocharis* (Bailey) Hult.ǂ	
Carex viridula Michx.	green sedge
Eleocharis palustris (L.) R. & S.	creeping spike-rush

* Introduced
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ǂ Rare in Alberta (COSEWIC 1989)
ǂ Reported by Eastern Slopes Rangeland Consultants (1992)

Cyperaceae (continued)	
Scirpus microcarpus Presl	small-fruited bulrush
Scirpus paludosus A. Nels.	prairie bulrush
Juncaceae	**Rush Family**
Juncus alpinoarticulatus Chaix	northern jointed rush
Juncus balticus Willd.	wire rush
Juncus torreyi Coville	Torry's rush
Liliaceae	**Lily Family**
Allium cernuum Roth	nodding onion
Allium textile Nels. & Macbr.	prairie onion
Disporum trachycarpum (S. Wats.) B. & H.	fairy-bells
Fritillaria pudica (Pursh) Spreng.	yellow-bell
Smilacina racemosa (L.) Desf. var. *amplexicaulis* (Nutt.) S. Wats.	false Solomon's-seal
Smilacina stellata (L.) Desf.	star-flowered Solomon's-seal
Zigadenus elegans Pursh	white camas
Zigadenus venenosus S. Wats. var. *gramineus* (Rydb.) Walsh	death camas
Iridaceae	**Iris Family**
Sisyrinchium montanum Greene	blue-eyed grass
Orchidaceae	**Orchid Family**
Corallorhiza striata Lindl.	striped coral-root
Corallorhiza trifida Châtelain	pale coral-root
Coeloglossum viride (L.) Hartm.	bracted orchid
Salicaceae	**Willow Family**
Populus angustifolia James	narrow-leaf cottonwood
Populus balsamifera L.	balsam poplar
Populus deltoides Marsh. var. *occidentalis* Rydb.	western cottonwood

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Salicaceae (continued)	
Populus tremuloides Michx.	aspen
Salix bebbiana Sarg.	beaked willow
Salix exigua Nutt.	sandbar willow
Betulaceae	**Birch Family**
Alnus tenuifolia Nutt.	river alder
Betula occidentalis Hook.	water birch; black birch
Urticaceae	
Urtica dioica L. ssp. *gracilis* (Ait.) Selander[x]	common nettle
Santalaceae	**Sandalwood Family**
Comandra umbellata (L.) Nutt.	bastard toadflax
Polygonaceae	**Buckwheat Family**
Eriogonum flavum Nutt.	yellow umbrella plant
Polygonum amphibium L.	water smartweed
Rumex triangulivalis (Dans.) Rech. f.	narrow-leaved dock
Chenopodiaceae	**Goosefoot Family**
Chenopodium capitatum (L.) Aschers.	strawberry blite
Eurotia lanata (Pursh) Moq.	winter fat
Nyctaginaceae	
Mirabilis hirsuta (Pursh) MacM.	umbrellawort
Caryophyllaceae	**Pink Family**
Cerastium arvense L.	mouse-ear chickweed
Moehringia lateriflora (L.) Fenzl.	
Paronychia sessiliflora Nutt.	low whitlow-wort
Silene drummondii Hook.[x]	Drummond's campion

[•] Introduced
[••] Reported by Hardy Associates (1978) Ltd. (1986)
[‡] Rare in Alberta (COSEWIC 1989)
[x] Reported by Eastern Slopes Rangeland Consultants (1992)

Ranunculaceae	**Crowfoot Family**
Actaea rubra (Ait.) Willd.	red (and white) baneberry
Anemone cylindrica A. Gray	long-fruited anemone
Anemone multifida Poir.	cut-leaved anemone
Anemone patens L.	prairie crocus
Clematis ligusticifolia Nutt.	western clematis
Clematis occidentalis (Hornem.) DC. var. *grosserrata* (Rydb.) Pringle	purple clematis
Delphinium bicolor Nutt.	low larkspur
Ranunculus abortivus L.	small-flowered crowfoot
Ranunculus acris L.*	tall buttercup
Ranunculus circinatus Sibth. var. *subrigidus* (Drew) L. Benson	white water crowfoot
Ranunculus cymbalaria Pursh	creeping buttercup
Ranunculus macounii Britt.	Macoun's buttercup
Thalictrum venulosum Trel.	veiny meadow rue
Fumariaceae	**Fumitory Family**
Corydalis aurea Willd.	golden corydalis
Cruciferae	**Mustard Family**
Arabis divaricarpa A. Nels.	purple rock cress
Arabis drummondii A. Gray‡	Drummond's rock cress
Arabis nuttallii Robinson	rock cress
Cardaria pubescens (C.A. Mey.) Rollins*	globe-podded hoary cress
Draba aurea Vahl	golden draba
Erysimum cheiranthoides L.*	wormseed mustard
Erysimum inconspicuum (S. Wats.) Macm.	small-flowered rocket
Lesquerella arenosa (Richards.) Rydb. var. *arenosa*	bladder-pod
Physaria didymocarpa (Hook.) A. Gray	double bladder-pod
Rorippa palustris (L.) Besser‡	yellow cress
Saxifragaceae	**Saxifrage Family**
Heuchera parvifolia Nutt. *ex* T. & G.	alum-root

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Grossulariaceae	**Gooseberry Family**
Ribes hirtellum Michx.**	wild gooseberry
Ribes oxyacanthoides L.	wild gooseberry
Rosaceae	**Rose Family**
Amelanchier alnifolia Nutt.	Saskatoon
Chamaerhodos erecta (L.) Bunge ssp. *nuttallii* (Pickering) Hult.	chamaerodos
Crataegus douglasii Lindl.** ‡	Douglas hawthorn
Crataegus rotundifolia Moench	round-leaf hawthorn
Fragaria virginiana Duchesne ssp. *glauca* (S. Wats.) Staudt.	wild strawberry
Geum aleppicum Jacq.	yellow avens
Geum triflorum Pursh	three-flowered avens
Potentilla anserina L.	silverweed
Potentilla arguta Pursh	white cinquefoil
Potentilla concinna Richards	early cinquefoil
Potentilla fruticosa L.	shrubby cinquefoil
Potentilla gracilis Dougl. *ex* Hook.	graceful cinquefoil
Potentilla hippiana Lehm.	woolly cinquefoil
Potentilla norvegica L.	rough cinquefoil
Potentilla pensylvanica L. (includes *P. bipinnatifida* Dougl. *ex* Hook.)	prairie cinquefoil
Potentilla rivalis Nutt.⁋	river cinquefoil
Prunus virginiana L.	choke cherry
Rosa acicularis Lindl.**	prickly rose
Rosa arkansana Porter	prairie rose
Rosa woodsii Lindl.	common wild rose
Rubus idaeus L. ssp. *melanolasius* Focke	wild red raspberry
Spiraea betulifolia Pallas	white meadowsweet
Leguminosae	**Pea Family**
Astragalus aboriginum Richards.	Indian milk vetch
Astragalus bisulcatus (Hook.) A. Gray	two-grooved milk vetch

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Leguminosae (continued)	
Astragalus canadensis L.	Canada milk vetch
Astragalus crassicarpus Nutt.	ground plum
Astragalus dasyglottis Fisch. *ex* DC.	
Astragalus drummondii Dougl. *ex* Hook.	Drummond's milk vetch
Astragalus flexuosus Dougl. *ex* G. Don	slender milk vetch
Astragalus gilviflorus Sheldon	cushion milk vetch
Astragalus missouriensis Nutt.	Missouri milk vetch
Astragalus pectinatus Dougl. *ex* Hook.	narrow-leaved milk vetch
Astragalus robbinsii (Oakes) A. Gray var. *occidentalis* S. Wats.	Robbin's milk vetch
Astragalus striatus Nutt.	ascending purple milk vetch
Astragalus tenellus Pursh	loose-flowered milk vetch
Astragalus vexilliflexus Sheldon	bent-flowered milk vetch
Glycyrrhiza lepidota Pursh	wild licorice
Hedysarum alpinum L. ssp. *americanum* (Michx.) Fedtsch.	American sweetbroom
Hedysarum boreale Nutt. var. *boreale*	northern hedysarum
Hedysarum sulphurescens Rydb.	yellow hedysarum
Lathyrus ochroleucus Hook.	cream-flowered peavine
Lupinus argenteus Pursh	perennial lupine
Lupinus sericeus Pursh	perennial lupine
Oxytropis monticola A. Gray ssp. *monticola*	late yellow loco-weed
Oxytropis sericea Nutt. var. *spicata* (Hook.) Barneby	early yellow loco-weed
Oxytropis splendens Dougl. *ex* Hook.	showy loco-weed
Petalostemon candidum (Willd) Michx.	white prairie clover
Petalostemon purpureum (Vent.) Rydb.	purple prairie clover
Psoralea esculenta Pursh	Indian bread-root
Thermopsis rhombifolia (Nutt.) Richards.	buffalo bean
Vicia americana Muhl.	wild vetch
Geraniaceae	**Geranium Family**
Geranium viscosissimum Fisch. & Mey.	sticky purple geranium

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Linaceae	**Flax Family**
Linum lewisii Pursh	wild blue flax
Linum rigidum Pursh	yellow flax
Anacardiaceae	**Sumach Family**
Rhus trilobata Nutt.	skunk bush
Malvaceae	**Mallow Family**
Sphaeralcea coccinea (Pursh) Rydb.	scarlet mallow
Sphaeralcea munroana (Dougl.) Spach *ex* Gray*	
Violaceae	**Violet Family**
Viola adunca J.E. Smith	early blue violet
Viola canadensis L. var. *rugulosa* (Greene) C.L. Hitchc.	western Canada violet
Viola nephrophylla Greene	bog violet
Viola nuttallii Pursh	yellow prairie violet
Viola renifolia A. Gray**	kidney-leaved violet
Loasaceae	**Loasa Family**
Mentzelia decapetala (Sims) Urban & Gilg	sand lily; evening star
Cactaceae	**Cactus Family**
Coryphantha vivipara (Nutt.) Britt. & Rose	cushion or ball cactus
Opuntia polyacantha Haw.	prickly pear
Elaeagnaceae	**Oleaster Family**
Elaeagnus commutata Bernh. *ex* Rydb.	wolf willow; silver-berry
Shepherdia argentea Nutt.	thorny buffalo-berry
Shepherdia canadensis (L.) Nutt.	Canadian buffalo-berry
Onagraceae	**Evening Primrose Family**
Epilobium angustifolium L.	fireweed; great willow-herb
Epilobium ciliatum Raf. ssp. *glandulosum* (Lehm.) Hoch & Raven	northern willow-herb

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Onagraceae (continued)	
Epilobium latifolium L. ssp. *latifolium*	red willow-herb
Gaura coccinea Pursh	scarlet butterfly-weed
Oenothera biennis L.	yellow evening primrose
Oenothera flava (A. Nels.) Garrett‡	low yellow evening primrose; yellow lavauxia
Oenothera nuttallii Sweet**	white evening primrose
Umbelliferae	**Carrot Family**
Angelica arguta Nutt.	white angelica
Carum carvi L.*	caraway
Heracleum lanatum Michx.	cow parsnip
Lomatium dissectum (Nutt.) Mathias & Constance var. *multifidum*	fern-leaved lomatium
Lomatium macrocarpum (Hook. & Arn.) Coult. & Rose‡	large-fruit lomatium
Lomatium triternatum (Pursh) Coult. & Rose	prairie parsley
Musineon divaricatum (Pursh) Nutt.	leafy musineon
Osmorhiza chilensis Hook. & Arn.‡	sweet cicely
Perideridia gairdneri (Hook. & Arn.) Mathius	squaw-root; yampa
Sium sauve Walt.	water parsnip
Zizia aptera (A. Gray) Fern.	meadow parsnip; heart-leaved alexanders
Cornaceae	**Dogwood Family**
Cornus stolonifera Michx.	red osier; dogwood; kinnikinnick
Ericaceae	**Heath Family**
Arctostaphylos uva-ursi (L.) Spreng.	common bearberry; kinnikinnick
Primulaceae	**Primrose Family**
Androsace chamaejasme Host**	sweet-flowered androsace
Androsace occidentalis Pursh‡	fairy candelabra; western pygmy-flower
Androsace septentrionalis L.	fairy candelabra
Dodecatheon conjugens Greene	shooting star

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Gentianaceae	**Gentian Family**
Gentianella amarella (L.) Börner ssp. *acuta* (Michx.) Gillett.	felwort
Apocynaceae	**Dogbane Family**
Apocynum androsaemifolium L.	spreading dogbane
Apocynum cannabinum L.	Indian hemp
Apocynum × *medium* Greene[I]	dogbane
Convolvulaceae	**Morning-glory Family**
Convolvulus sepium L.	wild morning-glory
Polemoniaceae	**Phlox family**
Collomia linearis Nutt.	collomia
Phlox hoodii Richards.	moss phlox
Polemonium pulcherrimum Hook.	Jacob's-ladder
Hydrophyllaceae	**Waterleaf Family**
Hydrophyllum capitatum Dougl. *ex* Hook.[‡]	woollen-breeches
Phacelia franklinii (R.Br.) A. Gray[I]	scorpion weed
Boraginaceae	**Borage Family**
Cryptantha nubigena (Greene) Payson var. *celosioides* (Eastw.) Boivin	sierra cryptantha
Hackelia floribunda (Lehm.) I.M. Johnston	many-flowered stick-seed
Lithospermum incisum Lehm.	narrow-leaved puccoon
Lithospermum ruderale Lehm.	yellow puccoon
Labiatae	**Mint Family**
Mentha arvensis L.	wild mint
Monarda fistulosa L. var. *menthifolia* (Grah.) Fern.	wild bergamot
Prunella vulgaris L. ssp. *lanceolata* (Bart.) Hult.	heal-all
Stachys palustris L. ssp. *pilosa* (Nutt.) Epling	hedge nettle

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Scrophulariaceae	**Figwort Family**
Besseya wyomingensis (A. Nels.) Rydb.	kitten-tails
Castilleja lutescens (Greenm.) Rydb.	yellow paint-brush
Castilleja miniata Dougl. *ex* Hook.	common red paint-brush
Gratiola neglecta Torr.	common American hedge-hyssop
Limosella aquatica L.	mudwort
Orthocarpus luteus Nutt.	owl-clover
Penstemon confertus Dougl.	yellow beard-tongue
Penstemon eriantherus Pursh‡	crested beard-tongue
Penstemon nitidus Dougl. *ex* Benth.	smooth blue beard-tongue
Penstemon procerus Dougl. *ex* Grah.	slender blue beard-tongue
Veronica americana (Raf.) Schw.	American brooklime
Orobanchaceae	**Broom-rape Family**
Orobanche fasciculata Nutt.	clustered broom-rape
Plantaginaceae	**Plantain Family**
Plantago canescens Adams	plantain
Rubiaceae	**Madder Family**
Galium boreale L.	northern bedstraw
Caprifoliaceae	**Honeysuckle Family**
Symphoricarpos albus (L.) Blake**	snowberry
Symphoricarpos occidentalis Hook.	buckbrush; wolfberry
Campanulaceae	**Bluebell Family**
Campanula rotundifolia L.	bluebell; harebell
Compositae	**Composite Family**
Achillea millefolium L.	common yarrow
Agoseris glauca (Pursh) Raf. var. *glauca*	false dandelion
Antennaria anaphaloides Rydb.	pussy toes; tall everlasting

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Compositae (continued)	
Antennaria aprica Greene	pussy toes; everlasting
Antennaria parvifolia Nutt.	pussy toes; small-leaved everlasting
Antennaria rosea Greene	pink pussy toes
Arnica cordifolia Hook.[I]	heart-leaf arnica
Arnica fulgens Pursh	shining arnica
Arnica sororia Greene	twin arnica
Artemisia biennis Willd.	biennial sagewort
Artemisia campestris L.	field sage
Artemisia campestris L. ssp. *caudata* (Michx.) H. & C.	field sage
Artemisia dracunculus L.	dragonwort
Artemisia frigida Willd.	pasture sagewort
Artemisia ludoviciana Nutt.	prairie sagewort
Aster campestris Nutt.[‡]	meadow aster
Aster ciliolatus Lindl.	Lindley's aster
Aster conspicuus Lindl.	showy aster
Aster ericoides L. ssp. *pansus* (Blake) Cronq.	tufted white prairie aster
Aster hesperius A. Gray	western willow aster
Aster laevis L.	smooth aster
Aster subspicatus Nees	
Balsamorhiza sagittata (Pursh) Nutt.	balsam-root
Cirsium undulatum (Nutt.) Spreng.	wavy-leaved thistle
Crepis atrabarba Heller[‡]	slender hawksbeard
Crepis occidentalis Nutt.[‡]	western hawksbeard
Erigeron annuus (L.) Pers. var. *septentrionalis* (Fern. & Wieg.) Wagenitz.	annual fleabane
Erigeron caespitosus Nutt.	tufted fleabane
Erigeron compositus Pursh	compound fleabane
Erigeron glabellus Nutt. var. *pubescens* (Hook.) Cronq.	smooth fleabane
Erigeron speciosus (Lindl.) DC.	showy fleabane
Gaillardia aristata Pursh	gaillardia; blanket flower
Grindelia squarrosa (Pursh) Dunal	gumweed
Gutierrezia sarothrae (Pursh) Britt. & Rusby	broomweed

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Compositae (continued)	
Haplopappus lanceolatus (Hook.) T. & G.**	lance-leaved pyrrocoma
Haplopappus spinulosus (Pursh) DC.	spiny iron plant
Helianthus annuus L. ssp. *lenticularis* (Lindl.) Cockerell	common annual sunflower
Helianthus subrhomboideus Rydb.	rhombic-leaved sunflower
Heterotheca villosa (Pursh) Shinners	golden aster
Hymenopappus filifolius Hook.‡	tufted hymenopappus
Hymenoxys acaulis (Pursh) Parker	butte marigold
Hymenoxys richardsonii (Hook.) Cockerell	Colorado rubber-plant
Lactuca pulchella (Pursh) DC.	common blue lettuce
Liatris punctata Hook.	dotted blazing star
Lygodesmia juncea (Pursh) D. Don	skeleton-weed; prairie pink
Madia glomerata Hook.	tarweed
Ratibida columnifera (Nutt.) Wooton & Standl.	prairie cone-flower
Senecio canus Hook.	prairie groundsel
Senecio integerrimus Nutt. var. *exaltatus* (Nutt..) Cronq.	entire-leaved groundsel
Senecio pauperculus Michx.	balsam groundsel
Solidago gigantea Ait. var. *serotina* (Ait.) Cronq.	late goldenrod
Solidago missouriensis Nutt.	Missouri goldenrod
Stephanomeria runcinata Nutt.‡	runcinate-leaved stephanomeria
Townsendia hookeri Beaman	Hooker's townsendia
Townsendia parryi D.C. Eat.	Parry's townsendia
Xanthium strumarium L.ⁿ	cocklebur

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